

AUG 02 2006

Application No. 10/083,967

AMENDMENTS TO THE SPECIFICATIONIn the Specification

Please substitute the following amended paragraph(s) and/or section(s) (deleted matter is shown by strikethrough and added matter is shown by underlining):

At page 28, lines 5-27, please replace the paragraph with the following.

Several different types of nanoscale particles have been produced by laser pyrolysis. As used herein, inorganic particles include carbon particles as carbonaceous solids, such as fullerenes, graphite, and carbon black. Such nanoscale particles for light reactive deposition can generally be characterized as comprising a composition with a number of different elements that are present in varying relative proportions, where the number and the relative proportions are selected based on the application for the nanoscale particles. Materials that have been produced (possibly with additional processing, such as a heat treatment) or have been described in detail for production by laser pyrolysis include, for example, carbon particles, silicon, amorphous SiO<sub>2</sub>, doped SiO<sub>2</sub>, crystalline silicon dioxide, titanium oxide (anatase and rutile TiO<sub>2</sub>), MnO, Mn<sub>2</sub>O<sub>3</sub>, Mn<sub>3</sub>O<sub>4</sub>, Mn<sub>5</sub>O<sub>8</sub>, vanadium oxide, silver vanadium oxide, lithium manganese oxide, aluminum oxide ( $\gamma$ -Al<sub>2</sub>O<sub>3</sub>, delta-Al<sub>2</sub>O<sub>3</sub> and theta-Al<sub>2</sub>O<sub>3</sub>), doped-crystalline and amorphous alumina, tin oxide, zinc oxide, rare earth metal oxide particles, rare earth doped metal/metalloid oxide particles, rare earth metal/metalloid sulfides, rare earth doped metal/metalloid sulfides, silver metal, iron, iron oxide, iron carbide, iron sulfide (Fe<sub>1-x</sub>S), cerium oxide, zirconium oxide, barium titanate (BaTiO<sub>3</sub>), aluminum silicate, aluminum titanate, silicon carbide, silicon nitride, and metal/metalloid compounds with complex anions, for example, phosphates, silicates and sulfates. In particular, many materials suitable for the production of optical materials can be produced by laser pyrolysis. The production of particles by laser pyrolysis and corresponding deposition as a coating having

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ranges of compositions is described further in copending and commonly assigned U.S. Patent application 10/027,906, now U.S. Patent 6,952,504 to Bi et al., entitled "Three Dimensional Engineering of Optical Structures," incorporated herein by reference.